

Abstract

An inward opening oven intake for a gas chromatographic (GC) oven includes an inward opening intake flap that opens into the GC oven near the bottom of the GC oven. Opening at a flap angle, the inward opening intake flap creates a low-pressure region to draw a large amount of airflow into the GC oven during cool-down. In addition, the inward opening oven intake manipulates the airflow within the GC oven to more efficiently draw heat away from the oven walls. This greater efficiency allows for faster cycle time and higher sample throughput.